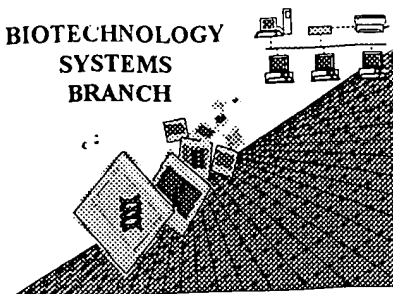


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/554,465
Source: 1641
Date Processed by STIC: 4/6/2001

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TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/534,465

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) ☐ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ☐. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) ☐ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 ☐ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☒ Use of "Artificial" (NEW RULES) Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
Valid response is Artificial Sequence.
- 12 ☐ Use of <220>Feature (NEW RULES) Sequence(s) ☐ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

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APR 17 2001

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1641

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:04

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw

Does Not Comply
Corrected Diskette Needed*pg 1-7*

3 <110> APPLICANT: Kufer, Peter
 4 Raum, Tobias
 5 Borschert, Katrin
 6 Zettl, Florian
 7 Lutterbuse, Ralf
 9 <120> TITLE OF INVENTION: A novel method of identifying binding site domains that
 retain the
 10 capacity of binding to an epitope
 12 <130> FILE REFERENCE: 147-199P
 14 <140> CURRENT APPLICATION NUMBER: US 09/554,465
 15 <141> CURRENT FILING DATE: 2000-10-19
 17 <150> PRIOR APPLICATION NUMBER: PCT/EP98/07313
 18 <151> PRIOR FILING DATE: 1998-11-16
 20 <160> NUMBER OF SEQ ID NOS: 71
 22 <170> SOFTWARE: PatentIn version 3.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 33
 26 <212> TYPE: DNA
 27 <213> ORGANISM: artificial *(global error)*
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: primer for human costimulatory protein CD80
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 33 gcagaatcca ccatgggcca cacacggagg cag 33
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 34
 38 <212> TYPE: DNA
 39 <213> ORGANISM: artificial *see item 11 on Error Summary Sheet*
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: primer for human costimulatory protein CD80
 44 <400> SEQUENCE: 2
 45 tgggtccggag ttatcaggaa aatgctcttg cttg 34
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 36
 50 <212> TYPE: DNA
 51 <213> ORGANISM: artificial
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: primer for human CD80-M79scFv
 56 <400> SEQUENCE: 3
 57 aggtgtacac tccgatatcm arctgcagsa gtcwgg 36
 60 <210> SEQ ID NO: 4
 61 <211> LENGTH: 37
 62 <212> TYPE: DNA
 63 <213> ORGANISM: artificial
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti
 17- 1A antibody M74 V(L)
 69 <400> SEQUENCE: 4

70 aggtgtacac tccgatatcc agctgaccca gtctcca

37

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:04

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw

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73 <210> SEQ ID NO: 5
74 <211> LENGTH: 51
75 <212> TYPE: DNA
76 <213> ORGANISM: artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti
17-
80      1A antibody M74 V(L
82 <400> SEQUENCE: 5
83 ggagccgccg ccgccagaac caccaccacc ttgatctcg agcttggtcc c          51
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 96
88 <212> TYPE: DNA
89 <213> ORGANISM: artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: primer to single-chain Fv fragment (scFv) of the murine anti
17-1
93      A antibody M74 V(H
95 <400> SEQUENCE: 6
96 ggcggcgccg gctccggtgg tgggtggttct caggtsmarc tgcagsagtc wggacctgag          60
98 ctggtgaagc ctggggcttc agtgaagatt tcctgc          96
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 39
103 <212> TYPE: DNA
104 <213> ORGANISM: artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: primer for the single-chain Fv fragment (scFv) of the murine
anti
108      17-1A antibody M74 V(H)BspE
110 <400> SEQUENCE: 7
111 aatccggagg agacggtgac cgtggtccct tggccccag          39
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 69
116 <212> TYPE: DNA
117 <213> ORGANISM: artificial
119 <220> FEATURE:
120 <223> OTHER INFORMATION: primer for the single-chain Fv fragment (scFv) of the murine
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121      17-1A antibody M74 V(H
123 <400> SEQUENCE: 8
124 tccgatatcm arctgcagsa gtcwggacct gagctggtga agcctggggc ttcagtgaag          60
126 atttcctgc          69
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 64
131 <212> TYPE: DNA
132 <213> ORGANISM: artificial
134 <220> FEATURE:
135 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine
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136      1A antibody M74 V(H
138 <400> SEQUENCE: 9
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141 ccag          64

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144 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:04

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw

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145 <211> LENGTH: 54
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147 <213> ORGANISM: artificial
149 <220> FEATURE:
150 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine
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157 <210> SEQ ID NO: 11
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159 <212> TYPE: DNA
160 <213> ORGANISM: artificial
162 <220> FEATURE:
163 <223> OTHER INFORMATION: primer for the single-chain Fv fragment (scFv) of the murine
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164      17-1A antibody M74 V(L)
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167 aatccggatt tgatctcgag cttggtccc          29
170 <210> SEQ ID NO: 12
171 <211> LENGTH: 22
172 <212> TYPE: DNA
173 <213> ORGANISM: artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: primer for V(H) chain of human anti-171A antibody
178 <400> SEQUENCE: 12
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182 <210> SEQ ID NO: 13
183 <211> LENGTH: 17
184 <212> TYPE: DNA
185 <213> ORGANISM: artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: primer for V(H) chain of human anti-17-1A antibody
190 <400> SEQUENCE: 13
191 ctgaggagac ggtgacc          17
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 38
196 <212> TYPE: DNA
197 <213> ORGANISM: artificial
199 <220> FEATURE:
200 <223> OTHER INFORMATION: primer for V(L) chain of human anti-17-1A antibody
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207 <211> LENGTH: 33
208 <212> TYPE: DNA
209 <213> ORGANISM: artificial
211 <220> FEATURE:
212 <223> OTHER INFORMATION: primer for V(L) chain of human anti-17-1A antibody
214 <400> SEQUENCE: 15
215 gaagacacta gttgcagcca ccgtacgttt rat          33

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:04

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw

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218 <210> SEQ ID NO: 16
219 <211> LENGTH: 24
220 <212> TYPE: DNA
221 <213> ORGANISM: artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: oligomer encoding six HIS residues
226 <400> SEQUENCE: 16
227 ctagccatca ccatcaccat caca                                24
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231 <211> LENGTH: 24
232 <212> TYPE: DNA
233 <213> ORGANISM: artificial
235 <220> FEATURE:
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239 ctagtgtgat ggtgatggtg atgg                                24
242 <210> SEQ ID NO: 18
243 <211> LENGTH: 47
244 <212> TYPE: DNA
245 <213> ORGANISM: artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: oligonucleotide for multiple cloning site containing SacI
and Xho
249      I overhang
251 <400> SEQUENCE: 18
252 gcagctggtc gacaaatccg gaggtggtgg atccgaggtg cagctgc      47
255 <210> SEQ ID NO: 19
256 <211> LENGTH: 55
257 <212> TYPE: DNA
258 <213> ORGANISM: artificial
260 <220> FEATURE:
261 <223> OTHER INFORMATION: oligonucleotide containing multiple cloning site with SacI
and Xho
262      I overhang
264 <400> SEQUENCE: 19
265 tcgagcagct gcacctcgga tccaccacct ccggatttctg cgaccagctg cagct      55
268 <210> SEQ ID NO: 20
269 <211> LENGTH: 79
270 <212> TYPE: DNA
271 <213> ORGANISM: artificial
273 <220> FEATURE:
274 <223> OTHER INFORMATION: oligonucleotide containing multiple cloning sites
276 <400> SEQUENCE: 20
277 tcgagccccg tcaccgtctc ctcaggtggt ggtggttctg gcggcgccgg ctccggtggt      60
279 ggtggttctg agctcgga                                          79
282 <210> SEQ ID NO: 21
283 <211> LENGTH: 79
284 <212> TYPE: DNA
285 <213> ORGANISM: artificial
287 <220> FEATURE:
288 <223> OTHER INFORMATION: oligonucleotide containing multiple cloning site

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:04

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw

290 <400> SEQUENCE: 21
 291 ctagtcccga gctcagaacc accaccaccg gagccgccgc cgccagaacc accaccacct 60
 293 gaggagacgg tgaccgggc 79
 296 <210> SEQ ID NO: 22
 297 <211> LENGTH: 29
 298 <212> TYPE: DNA
 299 <213> ORGANISM: artificial
 301 <220> FEATURE:
 302 <223> OTHER INFORMATION: primer for M13 gene III domain N2
 304 <400> SEQUENCE: 22
 305 ggtgtcgaca ctaaacctcc tgagtacgg 29
 308 <210> SEQ ID NO: 23
 309 <211> LENGTH: 30
 310 <212> TYPE: DNA
 311 <213> ORGANISM: artificial
 313 <220> FEATURE:
 314 <223> OTHER INFORMATION: primer for the M13 gene III domain N2
 316 <400> SEQUENCE: 23
 317 gcctccggaa gcattgacag gaggttgagg 30
 320 <210> SEQ ID NO: 24
 321 <211> LENGTH: 33
 322 <212> TYPE: DNA
 323 <213> ORGANISM: artificial
 325 <220> FEATURE:
 326 <223> OTHER INFORMATION: primer for detection of positive clones
 328 <400> SEQUENCE: 24
 329 gcagaattca ccatgggcca cacacggagg cag 33
 332 <210> SEQ ID NO: 25
 333 <211> LENGTH: 39
 334 <212> TYPE: DNA
 335 <213> ORGANISM: artificial
 337 <220> FEATURE:
 338 <223> OTHER INFORMATION: primer for identification of positive clones
 340 <400> SEQUENCE: 25
 341 tgggtgacta gtggtacgtt tgatctcaag cttggtccc 39
 344 <210> SEQ ID NO: 26
 345 <211> LENGTH: 32
 346 <212> TYPE: DNA
 347 <213> ORGANISM: artificial
 349 <220> FEATURE:
 350 <223> OTHER INFORMATION: primer for the extracellular region of the human CD54 antigen
 know
 351 n as ICAM-
 353 <400> SEQUENCE: 26
 354 ctcgattca ctatggctcc cagcagcccc cg 32
 357 <210> SEQ ID NO: 27
 358 <211> LENGTH: 30
 359 <212> TYPE: DNA
 360 <213> ORGANISM: artificial
 362 <220> FEATURE:

insert a
space

please correct this error in
subsequent sequences

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/554,465

DATE: 04/06/2001

TIME: 10:40:05

Input Set : A:\PTO.txt

Output Set: N:\CRF3\04062001\I554465.raw